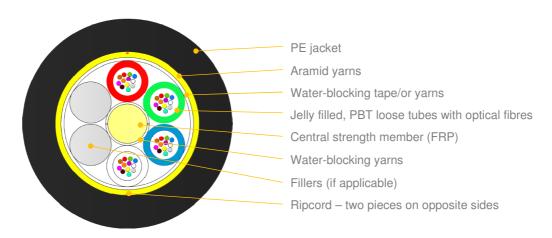


Туре:	AERO-AS02L	REV: 0
Issued:	21/03/2022	KP
Project:	005-22	

Single jacket, self-supporting aerial cable with aramid yarns reinforcement AERO-AS02L



^{*}schematic drawing, not to scale

APPLICATION

Self-supporting aerial cable
Installation on poles or in ducts
For installation along power lines with an operation voltage
below 150 kV and producing space potential below 4 kV.
Fully dielectric

DESIGN

Highly resistant, UV stabilized PE outer jacket
Aramid yarns reinforcement
SZ stranded cable core
FRP central rod
Jelly filled, PBT loose tubes with optical fibres
Dry cable core - water-blocking tape and/or yarns
Ripcord - two pieces on opposite sides

VARIANTS

	77447410								
Γ	Variant	Quantity [pcs]			Ø nominal	Nominal	Max	Max	
		Fibres Fibres	Total	Tube diameter	(±5%)	weight	allowed	static	
					(±3 /0)	(±10%)	tension T _M	tension T _L	
			per tube elements		[mm]	[kg/km]	[N]	[N]	
	1-6T x 12F	12-72	12	6	2,1	9,9	77	2000	1300

TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS

Test	Standard	Conditions		Requirements		
Tensile strength	IEC00704 1 01 Maked E1	Short term - T _M : 2000		Fibre strain: ≤0,6%, Δα reversible		
	IEC60794-1-21 Method E1	Long term - T _L : 1300		Fibre strain: ≤0,2%, Δα≤0,05 dB/km		
Crush resistance	IEC60794-1-21 Method E3	Long term: 2000N / 100	cm / 15min	∆α≤0,05 dB, during test		
Impact resistance	IEC60794-1-21 Method E4	Impact energy: 10J Radius: 300 mm No. of impacts: 3 (500)	mm apart)	∆α≤0,1dB, reversible No jacket cracking and fibre breakage		
Repeated bending	IEC60794-1-21 Method E6	Radius: 20xD No. of cycles: 35		∆α≤0,1dB, reversible No jacket cracking and fibre breakage		
Torsion	IEC60794-1-21 Method E7	Cable length: 2m No. of cycles: 10 Twist angle: ± 180°		∆α≤0,1dB, reversible No jacket cracking and fibre breakage		
Bending	IEC60794-1-21 Method E11	Radius: 20xD No. of turns: 4		∆α≤0,05dB No jacket cracking and fibre breakage		
Temperature range		Installation:	-15 +55 [℃]			
	IEC60794-1-22 Method F1	Operation:	-40 +70 [℃]	∆α≤0,05 dB/km		
		Transport & Storage:	-40 +70 [℃]			
Water Penetration	IEC60794-1-22 Method F5B	Water head: 1m, Time:	24h, Length: 3m	No water leakage		

^(*) values for single-mode fibres, all optical measurements performed at 1550nm



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SPAN CHARACTERISTIC

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	140	2,8	2000	6,3	6,1	1,8
NSC Medium	95	1,9	2000	4,6	2,9	3,6
NSC Heavy	50	1,0	2000	2,5	1,3	2,1

OPTICAL FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

For optical fibres and loose tube identification information please see DSH_Colors_CODE_XXXX document.

FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH_OFP document.

MARKING

The following print (laser printer) is applied at 1-meter intervals:

Example: FIBRAIN AERO-ASO2L T21 12F SM G657A1 1T12F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ±0,5%. Remarking is in accordance with Bellcore GR 20 and supersedes earlier markings. Occasional loss of marking is possible. Cables can be supplied with a range of single mode or multimode fibres and customized print.

PACKING

Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

DELIVERY LENGTH

2000 - 8000 meters $\pm 5\%$, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5% of order quantity shall be allowed.

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